Solution of an Equation by Trial and Error

- 1. Solve 2x + 16 = 26 by trial and error method.
- 2. Solve 5p + 7 = 17 by trial and error method.
- 3. Check, if the value mentioned in the given column is a solution of the given equation:

| S.No | Equation | Value of variable | Solution (Yes/No) | | | | |
|------|--------------|-------------------|-------------------|--|--|--|--|
| а. | 7x - 4 = 10 | x = 2 | | | | | |
| b. | 3x + 10 = 25 | x = 5 | | | | | |
| с. | p - 7 = 7 | x = 17 | | | | | |
| d. | 3x + 4 = 16 | x = 4 | | | | | |
| e. | 5x = 80 | x = 17 | | | | | |

4. a. Complete the table and find the solution to the equation x + 10 = 17 by inspection of the table.

| x | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | - | - | - |
|--------|---|---|---|---|---|---|---|---|---|---|---|---|
| x + 10 | - | - | - | - | - | - | - | - | - | - | - | - |

b. Complete the table and find the solution to the equation 5x = 30 by inspection of the table.

| х | 1 | 2 | 3 | 4 | 5 | 6 | 7 | - | - | - | - | - |
|----|---|---|---|---|---|---|---|---|---|---|---|---|
| 5x | - | - | - | - | - | - | - | - | - | - | - | - |

c. Complete the table and by inspection of the table, find the solution to the equation $\frac{y}{3} = 4$.

| У | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | - | - | - |
|---------------|----------------|---|----------------|----|----|----|----|----|----|---|---|---|
| <u>У</u> З | $2\frac{2}{3}$ | 3 | $3\frac{1}{3}$ | - | - | - | - | - | - | - | - | - |

d. Complete the table and find the solution of a - 7 = 3

| а | 5 | 6 | 7 | 8 | 9 | 11 | 12 | 13 | - | - | - |
|------|----|---|---|---|---|----|----|----|---|---|---|
| a -7 | -2 | - | - | - | - | - | - | - | - | - | - |

e. Complete the table and find the solution of the equation x + 9 = 17.

| x | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|-------|---|---|---|---|---|---|---|---|---|----|
| x + 9 | - | - | - | - | - | - | - | - | - | - |